

GNFAC Avalanche Forecast for Mon Apr 13, 2020

Good Morning. This is Alex Marienthal with a spring weather and snowpack update on Monday, April 13th. The Gallatin National Forest Avalanche Center has stopped issuing daily avalanche forecasts for the season. We will issue weather and snowpack updates on Monday and Friday mornings through April.

Mountain Weather

Over the weekend the Bridger Range got 9-12" of snow with 3-7" elsewhere. Wind was easterly at 15-35 mph Saturday night through Sunday morning, then shifted north-northwest at 5-20 mph. This morning temperatures are single digits above and below zero F. Today temperatures will reach teens to low 20s F under partly cloudy skies with very light snow showers.

Today will be the coldest of the week, but winter isn't going anywhere soon. The next few days temperatures will reach mid-20s to low 30s F with overnight lows in the teens F. Wind will remain north-northwest at 10-35 mph. Heavy snow is possible Tuesday night through Wednesday with 10-18" in the mountains near Big Sky, Bozeman and Cooke City and 4-6" near West Yellowstone.

Snowpack and Avalanche Discussion



All Regions

Today and tomorrow avalanches will involve snow that fell the last couple days. These could be small loose snow slides or fresh wind slabs. Yesterday small dry loose avalanches ran naturally ([details](#)), and wind slabs were triggered by skiers in the Bridger Range ([photo](#)) and Beehive Basin ([photo/details](#)). Wind from the east and north formed fresh drifts in less common locations which are possible to trigger today.

More snow tomorrow night through Wednesday will create unstable, dangerous avalanche conditions during and following the storm. Avalanches will become easy to trigger. The amount of snow and wind will determine the size of hazards, but any avalanche can be deadly in the wrong spot. Be extra cautious this week and choose objectives that keep you close to home and out of harm's way.

Be ready to change plans if you find unexpected conditions or changing snow stability. Even with today's frigid temperatures, the high spring sun will decrease strength of recent snow as the surface becomes wet and make avalanches easier to trigger. The safest plan is to avoid avalanche terrain. If you ride steeper slopes, reduce consequences by choosing terrain where a slide will not carry you through rocks, trees or over cliffs. Carefully assess and re-assess snow stability. Anticipate stability to change more drastically from hour-to-hour or day-to-day than what we are used to during winter.

Please continue to send us your observations. You can fill out an [observation form](#), email us (mtavalanche@gmail.com), leave a VM at 406-587-6984, or Instagram ([#gnfacobs](#)). We greatly appreciate your support.

GNFAC Forecaster Chat

TONIGHT!!! @ 6-7 p.m. GNFAAC Forecaster Chat: Spring snowpack and travel advice, Live Online w/ Uphill Pursuits. [Link here for details and to join the discussion.](#)

Give Big Gallatin Valley

[Give Big Gallatin Valley](#) is April 30th - May 1st. The Friends of the Avalanche Center are participating again this year and we'd really appreciate your support! Thank you.

CLOSURES AND STAY-AT-HOME ORDER

A [Stay at Home order](#) is in effect for the State of Montana due to COVID-19. This order specifically discourages "outdoor recreation activities that pose enhanced risks of injury or could otherwise stress the ability of local first responders to address the COVID-19 emergency (e.g., backcountry skiing in a manner inconsistent with avalanche recommendations or in closed terrain)".

[Bridger Bowl](#) is closed and advises against uphill travel which could place first responders at risk. Backcountry conditions exist. There is no avalanche control or ski patrol rescue. Please do not loiter or congregate in the parking lots.

[Park County](#) is requesting anyone who is not a permanent resident or provider of essential service to avoid travel to Cooke City/ Silvergate. This includes both single day and overnight visitors.

[Hyalite Canyon](#) is closed to vehicle traffic and will reopen on May 16th. This is the regular spring use closure.

GENERAL SPRING SNOWPACK AND TRAVEL ADVICE

Spring weather can be highly variable and create a mix of avalanche problems to watch out for. Snow conditions and [stability](#) can change drastically from day to day or hour to hour. Anticipate rapid change and plan accordingly. Abundant snowfall over the winter with more spring snow to come makes avalanches possible into summer.

NEW SNOW AND WIND LOADED SLOPES

Spring storms are notorious for depositing heavy amounts of snow in the mountains. Even with a deep and generally stable snowpack throughout the advisory area, heavy and rapid loads of new snow will decrease [stability](#). The main problems to look out for are avalanches breaking within the new snow, wind slabs, and loose snow avalanches. The likelihood of triggering an avalanche spikes during and immediately after snowstorms. New snow instabilities tend to stabilize quickly, but it's a good idea to give new snow a day to adjust before hitting big terrain. New snow instabilities can be difficult to assess, and spring storms bond to old snow differently across aspects and elevations. Conservative terrain selection is essential during and immediately following storms. Wind loaded slopes and slopes steeper than 35 degrees should be avoided for 24-48 hours after new snow and wind.

New snow can quickly change from dry to wet on a spring day, and [stability](#) can decrease rapidly with above freezing temperatures or brief sunshine. New snow may bond well early in the morning, and then easily [slide](#) later. Wet loose slides are likely during the first above freezing temperatures or sunshine immediately after a storm. Anticipate changes in snow [stability](#) as you change [aspect](#) or elevation, and over the course of the day. An early start is always an advantage. Be ready to change plans or move to safer terrain at the first signs of decreasing [stability](#).

WET SNOW AVALANCHES

Spring and wet snow avalanches go hand-in-hand. Above freezing temperatures, rain, and/or intense sunshine cause the snow to become wet and weak, and make wet avalanches easy to [trigger](#) or release naturally. Conditions tend to become most unstable when temperatures stay above freezing for multiple days and nights in a row. Avoid steep terrain, and be aware of potential for natural wet avalanches in steep terrain above you, if you see:

- Heavy rain,
- Above freezing temperatures for more than 24 hours,
- Natural wet avalanches,
- Roller balls or pin wheels indicating a moist or wet snow surface,
- Or if you sink to your boot top in wet snow.

In general, if the snow surface freezes solid overnight, the snowpack will be stable in the morning and [stability](#) will decrease through the day as snow warms up. The snow surface hardness, rate of warming, duration of sunshine, [aspect](#) and elevation determine how fast [stability](#) will decrease through the day. Be aware that sunny aspects may have a [wet snow avalanche](#) danger while shadier slopes still have a [dry snow avalanche](#) danger. Getting off of steep slopes should be considered when, or before, the above signs of instability are present. Wet snow avalanches, whether loose snow or slabs, can be powerful, destructive and very dangerous. Conservative terrain choices, starting early in the day, and careful observations can keep you safe. See Alex's recent video, and this article for more spring travel advice.

CORNICES

Cornices along ridgelines are massive and can break under the weight of a person (photo). Prolonged above freezing temperatures and rain make them weaker and possible to break naturally. They can break off suddenly and farther back than one might expect. [Cornice](#) falls can also entrain large amounts of loose snow or [trigger slab](#) avalanches. Stay far back from the edge of ridgelines and minimize exposure to slopes directly below cornices. Regardless of whether a [cornice](#) triggers a [slide](#) or not, a falling [cornice](#) is dangerous to anyone in its path.

DISCLAIMER

It does not matter if new snow falls or not, avalanches will continue to occur until the existing snowpack is mostly gone. Always assess the slope you plan to ride with diligence and safety in mind. Do not let your guard down. Travel with a partner, carry rescue gear and only expose one person at a time in avalanche terrain.

Have a safe and enjoyable spring and summer!

Doug, Alex, Ian and Dave